Index of Claims

| Application/Contro | l No. |
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10/517,796

Examiner

Mirellys Jagan

Applicant(s)/Patent under Reexamination

BERNARD ET AL.
Art Unit

2859

| ✓ | Rejected<br>Allowed |
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| - | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

| Z | Non-Elected  |
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| _ | Interference |

| Α | Appeal   |
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| Cla      | aim      | Date     |  |  |  |  | Date Claim Date                                  |  |          |          |             |          |              |  | Claim Date                                       |  |          |          |          |          |          |          |          |  |          |          |                 |          |          |          |          |          |
|----------|----------|----------|--|--|--|--|--|--|----------|----------|-------------|----------|--------------|--|--|--|----------|----------|----------|----------|----------|----------|----------|--|----------|----------|-----------------|----------|----------|----------|----------|----------|
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| Final    | Original | 90/2/9   |  |  |  |  |  |  |          |          | Final       | Original |              | ŀ  |  |  |          |          |          |          |          | Final    | Original |  |          |          |                 |          |          | - 1      |          |          |
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|          | 1        | 1        | $\vdash$   |  | T  | T  | <del>                                     </del> | <b>—</b>   |          | $\neg$   |             | 51       | Т            | T  | $\vdash$   |  |          | ヿ        | ヿ        |          | _        |          | 101      |  |          |          |                 | コ        |          | $\neg$   |          |          |
|          | 2        | 1        |  |  |  | T  | T  | ┢  |          | _        |             | 52       | Т            |  | _  |  |          |          |          |          |          |          | 102      |  |          | $\neg$   |                 | $\neg$   | $\neg$   | $\neg$   | ヿ        |          |
|          | 3        | 1        |  |  | T  | Т  | T  | ┪  | Т        | ヿ        |             | 53       |              | $\vdash$   |  |  | $\dashv$ | $\neg$   |          |          |          |          | 103      | Н  |          |          |                 |          |          | $\neg$   | 一        | $\neg$   |
|          | 4        | N        | Г  |  | t  | ⇈  | T  | T  |          | $\neg$   |             | 54       | Т            | $\vdash$   | $\vdash$   |  |          | 一        |          |          |          |          | 104      |  |          | $\neg$   |                 | $\neg$   | _        | _        | 寸        |          |
|          | 5        | 1        |  |  | t  | T  | T  | t  | Т        | ┪        |             | 55       | Т            |  | Н  |  |          | 寸        |          |          | _        |          | 105      |  | $\Box$   |          |                 | $\neg$   |          | $\neg$   | ヿ        | $\neg$   |
|          | 6        | 1        |  |  | 一  | <del>                                     </del> | 一  | ┢  |          | -        | -           | 56       | 1            | $\vdash$   |  |  |          | ᅥ        | $\neg$   |          | $\dashv$ |          | 106      |  |          | $\neg$   | $\exists$       | 寸        | $\dashv$ | _        | 寸        | $\neg$   |
|          | 7        | H        | -  | -  | T  | T  | $\vdash$   | $\vdash$   |          | $\neg$   |             | 57       | $\vdash$     | -  | $\vdash$   | Т  |          | $\dashv$ |          |          | $\neg$   |          | 107      | _  |          | $\neg$   | $\neg$          | $\neg$   | $\neg$   | $\neg$   | $\neg$   |          |
|          | 8        | #        | _  | $\vdash$   | t  | <del>                                     </del> | $\vdash$   | H  |          |          |             | 58       | T            | $\vdash$   | $\vdash$   | П  |          | 一        |          |          |          |          | 108      |  |          |          |                 |          |          | 一        | ヿ        |          |
|          | 9        | Н        |  |  | ┢  | $\vdash$   | 一  | ┢  | $\vdash$ | $\neg$   | -           | 59       | $\vdash$     | $\vdash$   | $\vdash$   |  | Н        | 寸        |          |          | _        |          | 109      | $\vdash$   |          | _        | $\neg$          | 寸        | $\dashv$ | 一        | ┪        | _        |
|          | 10       | 1        | H  |  | 一  | ┢  | H  | H  | H        | _        | -           | 60       | $\vdash$     | <del>                                     </del> | $\vdash$   |  | -        | ┪        | $\neg$   | $\dashv$ | $\dashv$ |          | 110      |  |          |          |                 |          | $\neg$   | -        | _        |          |
| <u> </u> | 11       | V        | -  | _  | ╁╌   | $\vdash$   | $\vdash$   | H  | $\vdash$ | _        |             | 61       | 1            | <del>                                     </del> | -  | -  |          |          |          |          | _        |          | 111      |  | $\Box$   | 一        | $\neg$          | $\neg$   | $\neg$   | $\dashv$ | $\dashv$ | $\neg$   |
| $\vdash$ | 12       | N        |  | $\vdash$   | t  | t  | <del>                                     </del> | <del>                                     </del> |          |          |             | 62       | $t^-$        | 1  | <del> </del>                                     | $\vdash$   | $\vdash$ | -        | $\neg$   | $\vdash$ | $\dashv$ |          | 112      |  | $\vdash$ | $\neg$   |                 | 寸        |          | $\dashv$ | $\dashv$ | $\dashv$ |
|          | 13       | ÷        | $\vdash$   | $\vdash$   | t  | t  | <del>                                     </del> | <del>                                     </del> | $\vdash$ | $\dashv$ |             | 63       | $\vdash$     | $\vdash$   | $\vdash$   | М  | Н        | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$ |          | 113      | Н  | $\vdash$ |          |                 | $\neg$   | $\dashv$ | ᅥ        | $\neg$   | _        |
| $\vdash$ | 14       | $\vdash$ | $\vdash$   |  | $t^{-}$  | 1-   | <u> </u>   | H  | $\Box$   | $\dashv$ |             | 64       | T            | t  | Т  | Н  | Н        | 一        | _        | $\Box$   | $\dashv$ |          | 114      |  | $\vdash$ | $\neg$   | $\neg$          | 一        | $\dashv$ | $\neg$   | 7        | $\dashv$ |
|          | 15       | $\vdash$ | $\vdash$   | $\vdash$   | t  | Τ-   | $\vdash$   | Т  | Т        | $\dashv$ |             | 65       | $\vdash$     | $\vdash$   | Т  | П  | М        | $\dashv$ | $\neg$   | $\Box$   | $\dashv$ |          | 115      |  | $\vdash$ | $\neg$   | $\neg \uparrow$ | $\neg$   | $\dashv$ | _        |          | _        |
| -        | 16       | $\vdash$ | $\vdash$   |  | $\vdash$   | ┢  |  | $\vdash$   | $\vdash$ | $\dashv$ | _           | 66       | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$ | ᅥ        | _        | $\vdash$ | _        |          | 116      |  |          | $\dashv$ | $\neg$          | 一        | $\dashv$ | ᅥ        | -        |          |
|          | 17       | <u> </u> | 1  |  | t  | H  | 一  | ┢  | $\vdash$ |          |             | 67       | ╁            | ┢  | -  | $\vdash$   | Н        | 一        | $\neg$   | $\vdash$ |          |          | 117      |  |          | _        | $\neg$          | 一        | $\neg$   | _        | _        | ┪        |
| _        | 18       | -        | -  |  | H  | ┢╌   | -  | ┢╌   | $\vdash$ | $\dashv$ | 1           | 68       | ╁╴           | ├  | $\vdash$   | $\vdash$   | Н        | _        |          | Н        | -        |          | 118      | $\vdash$   |          | -        | _               | $\dashv$ |          | ᅱ        | _        |          |
|          | 19       | _        | -  | $\vdash$   | ╁╌   | -  | $\vdash$   | $\vdash$   | $\vdash$ | $\dashv$ | -           | 69       | H            | $\vdash$   | $\vdash$   | -  |          | ┪        | $\dashv$ |          | $\dashv$ | -        | 119      | -  | Н        | $\dashv$ |                 | $\dashv$ | $\dashv$ | ┪        | 7        | $\neg$   |
| -        | 20       | ├-       | ₩  | -  | ╁  | ┢  | ┢  | ╌  | -        | $\dashv$ | -           | 70       | ╫            | ╁╴   | $\vdash$   | $\vdash$   | $\vdash$ | $\dashv$ |          | $\vdash$ | $\dashv$ | $\vdash$ | 120      | -  | $\vdash$ | $\dashv$ |                 | $\dashv$ | $\dashv$ | ┪        | _        |          |
|          | 21       | ┢        | ╁  | -  | ╁╌   | -  | ┢  | H  | H        | $\dashv$ | -           | 71       | $\vdash$     | $\vdash$   | -  | $\vdash$   | $\vdash$ | $\dashv$ | -        | $\vdash$ | -        | -        | 121      |  | H        | _        | $\neg$          | 一        | -        | -        | $\dashv$ | _        |
| $\vdash$ | 22       | -        | -  | _  | ╁  | -  | ⊢  | ┢  | $\vdash$ | $\dashv$ | -           | 72       | ╁            | ├  | ┢  | -  |          | $\dashv$ | _        | $\dashv$ | -        | -        | 122      | $\vdash$   | $\vdash$ | -        |                 | ᅥ        | -        | -        | $\dashv$ | $\dashv$ |
| -        | 23       | _        | -  | _  | ┢  | $\vdash$   | ┢  | -  | -        |          | -           | 73       | $\vdash$     | ┢╌   | ╁─   | $\vdash$   |          | $\dashv$ | $\dashv$ |          | $\dashv$ |          | 123      | $\vdash$   | $\vdash$ | $\dashv$ | _               | -        | $\dashv$ | -        | _        | -        |
|          | 24       | $\vdash$ | -  | -  | ╁  | ⊢  | ┢  | ┢  | -        | -        |             | 74       | ┢            | ╁  | ┢  |  | Н        | ᅱ        | $\dashv$ | $\vdash$ |          | $\vdash$ | 124      | -  | $\vdash$ | $\dashv$ | $\dashv$        |          | $\dashv$ | ┰        |          |          |
| -        | 25       | ┢        |  | -  | H  | ┢  | -  | ┢  | -        | $\dashv$ |             | 75       | $\vdash$     | $\vdash$   | <del> </del>                                     | ┝  | Н        | 一        |          | $\vdash$ |          | -        | 125      | -  |          | $\dashv$ | -               | 一        | $\dashv$ | -        |          |          |
|          | 26       | $\vdash$ | <del>                                     </del> |  | $\vdash$   | H  | ┢  | $\vdash$   | Н        | -        | -           | 76       | $\vdash$     | $\vdash$   | -  | $\vdash$   | Н        | $\dashv$ | _        |          | $\dashv$ | $\vdash$ | 126      | $\vdash$   | $\vdash$ | $\dashv$ | $\neg$          | $\dashv$ | $\dashv$ | -        | $\dashv$ | $\neg$   |
|          | 27       | $\vdash$ | -  | -  | ╁  | $\vdash$   | 一  | $\vdash$   | H        | $\dashv$ | _           | 77       | $\vdash$     | 一  | $\vdash$   | $\vdash$   | Н        | ┪        |          | $\vdash$ |          |          | 127      |  | $\vdash$ | _        | _               | ┪        | $\neg$   | ᅥ        | $\dashv$ | $\neg$   |
|          | 28       | ┢        |  | $\vdash$   | $\vdash$   | H  | ╁  | ┢  |          |          |             | 78       | <del> </del> | ╁┈   | $\vdash$   | -  |          | ᅥ        |          | $\dashv$ | $\dashv$ |          | 128      | $\vdash$   |          | $\dashv$ |                 | 一        | $\dashv$ | _        |          | $\neg$   |
| _        | 29       | H        | _  | -  | <del>                                     </del>   | $\vdash$   | 一  | H  | H        | $\neg$   | -           | 79       | $\vdash$     | 十  | ┢  | -  | $\vdash$ | -        | $\neg$   |          | $\dashv$ | <b>-</b> | 129      | -  |          | $\dashv$ |                 | 一        | _        | -1       | $\dashv$ | _        |
|          | 30       | $\vdash$ | $\vdash$   | -  | ┼  | <del>                                     </del> | $\vdash$   | $\vdash$   | H        | $\dashv$ | -           | 80       | +-           | ╁  | ┢  | $\vdash$   |          | $\dashv$ | $\neg$   |          | $\dashv$ | <u> </u> | 130      | -  |          |          | _               | $\dashv$ | _        | -        | $\dashv$ | $\neg$   |
|          | 31       | $\vdash$ | _  | ┢╌   | ┼  | +-   | 一  | $\vdash$   | Н        | $\dashv$ |             | 81       | +-           | ╁  | $\vdash$   | -  | $\vdash$ | ᅥ        | -        |          | _        | <b>—</b> | 131      | -  |          |          | $\neg$          | $\neg$   | _        | -        | $\neg$   | ᅥ        |
| <b></b>  | 32       | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$   | t  | t  | H  | H        | $\dashv$ |             | 82       | t            | <del> </del>                                     | T  | -  | Н        | $\dashv$ |          | $\dashv$ | $\dashv$ |          | 132      | $\vdash$   | $\vdash$ |          | $\neg$          | _        | $\neg$   | ᅥ        | $\dashv$ | $\neg$   |
| <u> </u> | 33       | $\vdash$ | $\vdash$   | <del>                                     </del> | <del>                                     </del>   | $t^-$  | T  | Н  | $\vdash$ | $\dashv$ | _           | 83       | $\vdash$     | $\vdash$   | $\vdash$   | -  | Н        | $\dashv$ |          | $\vdash$ | $\dashv$ |          | 133      | Т  | $\vdash$ |          |                 |          |          | -        | -        | $\dashv$ |
| <u> </u> | 34       | $\vdash$ | $\vdash$   | ┢  | $\vdash$   | t  | t  | H  | H        | $\dashv$ |             | 84       | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$   | Н        | $\dashv$ |          | $\vdash$ | $\dashv$ | -        | 134      | Н  | $\dashv$ |          | $\neg$          | 一        | $\dashv$ | $\dashv$ | 寸        | $\neg$   |
| <u> </u> | 35       | ┢╌       |  | <del>  -</del>                                   | $t^-$  | 一  | $t^-$  | $\vdash$   |          | $\dashv$ | -           | 85       | 1            | +-   | $\vdash$   | $\vdash$   | H        | -        | _        | $\vdash$ | $\dashv$ |          | 135      | $\vdash$   |          |          | $\dashv$        |          | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ |
| $\vdash$ | 36       | ┢╌       | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | Н        | $\dashv$ |             | 86       | $\vdash$     | +  | $\vdash$   | $\vdash$   | $\vdash$ | -        | $\neg$   | $\vdash$ | $\dashv$ |          | 136      | $\vdash$   | Н        | $\neg$   |                 | -        | _        | ᅥ        | $\dashv$ | $\dashv$ |
|          | 37       | $\vdash$ | $\vdash$   | $\vdash$   | +-   | +-   | t-   | ┢╌   | H        | $\dashv$ |             | 87       | +            | $\vdash$   | $\vdash$   | $\vdash$   | H        | $\dashv$ | $\neg$   | H        | $\dashv$ |          | 137      | <del>                                     </del> | Н        | $\dashv$ |                 | $\dashv$ |          | -1       | -        | ᅱ        |
|          | 38       | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   |          | $\dashv$ |             | 88       | $\vdash$     | $\vdash$   | <del>                                     </del> | $\vdash$   | H        | $\dashv$ | $\dashv$ | $\vdash$ | $\dashv$ | $\vdash$ | 138      | Н  |          |          |                 | 一十       |          | $\dashv$ | $\dashv$ | $\dashv$ |
|          | 39       | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | +-   | <del>                                     </del> | $\vdash$ | $\dashv$ | _           | 89       | $\vdash$     | $\vdash$   | $\vdash$   | $\vdash$   | H        | -        | -        | $\vdash$ | $\dashv$ | -        | 139      |  |          | $\dashv$ |                 |          | $\neg$   | _        | $\dashv$ | ᅱ        |
|          | 40       | ┢        | -  | $\vdash$   | <del>  -                                    </del> | $\vdash$   | t  | <del>                                     </del> | $\vdash$ | $\dashv$ |             | 90       | 1            | $\vdash$   | $\vdash$   |  | Н        | -        | $\dashv$ | $\vdash$ | $\dashv$ | <b>—</b> | 140      | $\vdash$   | $\vdash$ | $\neg$   | $\neg$          | $\dashv$ |          | $\dashv$ | $\dashv$ |          |
|          | 41       | $\vdash$ | $\vdash$   | _  | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$ | $\dashv$ | _           | 91       | +-           | $\vdash$   | $\vdash$   | -  | $\vdash$ |          |          | $\vdash$ | $\dashv$ | $\vdash$ | 141      | $\vdash$   | $\vdash$ | $\dashv$ | $\neg$          | ᅱ        | $\dashv$ | -        | $\dashv$ | $\neg$   |
|          | 42       | $\vdash$ | $\vdash$   | -  | $\vdash$   | ╁  | t  | -  | -        | $\dashv$ |             | 92       | -            | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$ | -        | $\dashv$ | $\vdash$ | $\dashv$ | -        | 142      | $\vdash$   | H        | -        |                 | -        | _        | -        | $\dashv$ | -        |
|          | 43       | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$ | $\dashv$ | <del></del> | 93       | $\vdash$     | $\vdash$   | <del>                                     </del> |  | $\vdash$ |          |          |          | $\dashv$ | $\vdash$ | 143      | -  |          | $\dashv$ | $\neg$          | 一        | $\neg$   | _        |          | $\dashv$ |
| <b>—</b> | 44       | $\vdash$ | $\vdash$   | ┢  | ✝  | <del>                                     </del> | $\vdash$   | <del>                                     </del> |          | $\dashv$ | $\vdash$    | 94       | $\vdash$     | T  | $\vdash$   | <del>                                     </del> | Н        | -        | $\dashv$ | $\vdash$ | $\dashv$ |          | 144      | Т  |          | $\neg$   | $\dashv$        | _        | $\dashv$ | _        | 7        |          |
| $\vdash$ | 45       | $\vdash$ | $\vdash$   | $\vdash$   | $\vdash$   | 1  | $\vdash$   | $\vdash$   | $\vdash$ | $\dashv$ | -           | 95       | +            | t  | $\vdash$   | $\vdash$   | Н        |          | $\dashv$ | $\vdash$ | $\dashv$ | -        | 145      | $\vdash$   | $\vdash$ | $\neg$   | $\neg$          | $\dashv$ |          | $\dashv$ | 寸        | _        |
| <b></b>  | 46       | $\vdash$ | $\vdash$   | $\vdash$   | 1  | <del>                                     </del> | T  | H  |          | $\dashv$ | -           | 96       | +            | +-   | $\vdash$   | $\vdash$   | Н        | $\dashv$ | $\neg$   | Н        | $\dashv$ |          | 146      | П  | Н        | $\dashv$ | $\neg$          | -        | _        | 一        | $\neg$   |          |
|          | 47       | $\vdash$ | $\vdash$   | <del>                                     </del> | t  | ⇈  | $\vdash$   | $\vdash$   | $\vdash$ | $\dashv$ | $\vdash$    | 97       | $\vdash$     | $\vdash$   | $\vdash$   | -  | H        |          | $\dashv$ | Н        | $\dashv$ |          | 147      |  | Н        | $\neg$   |                 | $\dashv$ | $\neg$   | _        | 寸        | _        |
|          | 48       | Н        | $\vdash$   | $\vdash$   | T  | <del>                                     </del> | $\vdash$   | t  |          | $\dashv$ | -           | 98       | $\vdash$     | H  | $\vdash$   |  | Н        | $\neg$   | $\dashv$ | $\vdash$ | $\dashv$ |          | 148      | 1  | П        |          |                 |          | $\neg$   | 一        | 寸        |          |
|          | 49       | ┢        | $\vdash$   | $\vdash$   | 1  | T  | T  | 1  | $\vdash$ | $\dashv$ | -           | 99       | t            | t  | Н  | <b>-</b>   | Н        | $\dashv$ | $\vdash$ | Н        | $\dashv$ |          | 149      |  | Н        |          |                 | _        |          | $\neg$   | _        | $\neg$   |
|          | 50       | $\vdash$ | T  |  | $t^-$  | $\vdash$   | $t^-$  | $\vdash$   | $\vdash$ | $\dashv$ | -           | 100      | T            | $\vdash$   | Т  | Н  | Н        | $\dashv$ | $\Box$   | Н        | $\dashv$ |          | 150      |  | П        |          |                 |          |          | $\neg$   | 一        | $\neg$   |
| <u> </u> |          | Ц_       | Ь_   | Ц  | <u>-</u>   | Ц_   |  | Ц.,  | Ц.       |          |             | 1.00     | Ц_           |  |  |  | $\sqcup$ |          |          | لـــا    |          |          |          |  | لب       | لـــا    |                 |          |          | _        |          |          |